

Atty. Dkt. AMAT/5730/TCG/WCVD/LE

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:

Yoo, et al.

Serial No.: 10/023,125

Confirmation No.: 5845

Filed:

December 17, 2001

For:

Nucleation Technique for Improved Step Coverage

**WCVD Process** 

Pulse Nucleation Enhanced and Better Gap Fill for

Group Art Unit: Unknown

Examiner:

Unknown

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

## CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited on February \_\_\_\_, 2003 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/5730/BTP.

FEB 0 7 2003

Respectfully submitted,

B. Todd Patterson

Registration No. 37,906

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Attorney for Applicant(s)

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U.S. Department of Commerce, Patent and Trademark Office						Docket No. Serial No.				
(PTO Form 1449 modified)						AMAT/5730/TCG/ WCVD/LE		10/023,125		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Applicant		Confirmation No.:		
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	A1	6,482,740	11/19/02		Soininen, et al.		438	686	05/15/01	
	A2	6,482,733	11/19/02		Raaijmakers, et al.		438	633	04/26/01	
	A3	6,475,910	11/05/02		S	neh	438	685	09/22/00	
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	C1	Lee, et al., "Pulsed Nucleation for Ultra-High Aspect Ratio Tungsten Plugfill," Conference Proceedings ULSI XV111 (2002) Materials Research Society								
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	C3	International Search Report, dated November 25,					2002 for PCT/US02/22486			
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	A20	6,200,893	03/13/01	Sneh	438	685	03/11/89		
-	A21	6,113,699	09/05/00	Hansen	118	715	11/26/97		
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•	A23	5,994,775	11/30/99	Zhao, et al.	257	751	09/17/97		
	A24	5,306,666	04/26/94	Izumi	437	192	07/21/93		
	A25	2002/0162506	11/07/02	Sneh, et al.	118	715	06/28/02		
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	A29	2002/0109168	08/15/02	Kim, et al.	257	295	01/30/02		
	A30	2002/0106846	08/08/02	Seutter, et al.	438	200	02/02/01		
	A31	2002/0105088	08/08/02	Yang, et al.	257	774	10/31/01		
	A32	2002/0090829	07/11/02	Sandhu, et al.	438	761	01/31/02		
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•	A36	2002/0055235	05/09/02	Agarwal, et al.	438	430	10/29/01		
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U.S. Department of Commerce, Patent and Trademark Office					Docket	Docket No.		Serial No.	
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	A43	2001/0029094	10/11/01	Mee-Young, et al.	438	597	09/16/99		
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